



Missouri Department of Natural Resources
Big Muddy Creek - WBID 0436
Aquatic Invertebrate Monitoring by MoDNR 2004-2005

Org	Stream	Location	Date	Score
MoDNR	Big Muddy Cr.	Sec. 36,59N, 27W	Fall 2004	20
MoDNR	Big Muddy Cr.	Sec. 36,59N, 27W	Spring 2005	18
MoDNR	Big Muddy Cr.	Sec.11,59N,27W	Fall 2004	20
MoDNR	Big Muddy Cr.	Sec.11,59N,27W	Spring 2005	20
MoDNR	Big Muddy Cr.	Sec.33,60N,27W	Fall 2004	20
MoDNR	Big Muddy Cr.	Sec.33,60N,27W	Spring 2005	16

The Missouri Department of Natural Resources collected and analyzed aquatic invertebrate samples. Staff followed the department's Environmental Services Program's written standard operating methods contained in "Semi-Quantitative Macroinvertebrate Stream Bioassessment" by R. Sarver, 2003. Invertebrate communities are judged to be impaired if the percent of sampling sites receiving a score of 16 or more is significantly less than for reference streams in the same ecological drainage unit. Scores of 16 or more are considered to reflect unimpaired macroinvertebrate communities.

Reference streams in this ecological drainage unit score 16 or higher on 79.5 percent of all samples. For Big Muddy Creek, all six samples or 100 percent scored 16 or higher. This is a higher percentage than the reference streams in this ological drainage unit. Thus, Big Muddy Creek is judged to have an **unimpaired** aquatic invertebrate community.